

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB2004/051518

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G11B20/12 G11B27/32 G11B7/007

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G11B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02/086873 A (FUJIUNE KENJI; KUZE YUICHI (JP); YAMADA SHINICHI (JP); MATSUSHITA) 31 October 2002 (2002-10-31) abstract	1-11
P, X	-& US 2004/156294 A1 (FUJIUNE KENJI ET AL) 12 August 2004 (2004-08-12) abstract paragraphs '0005! - '0009! paragraphs '0069! - '0098! paragraphs '0118! - '0120! figures 1,2,8	1-11
A	US 5 729 525 A (HISAKADO YUJI ET AL) 17 March 1998 (1998-03-17) the whole document	1-11
	----- -/-	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- *&* document member of the same patent family

Date of the actual completion of the international search

27 October 2004

Date of mailing of the international search report

14/03/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5618 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Sucher, R

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB2004/051518

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PATENT ABSTRACTS OF JAPAN vol. 1998, no. 02, 30 January 1998 (1998-01-30) & JP 9 265632 A (FUJITSU TEN LTD), 7 October 1997 (1997-10-07) abstract	1-11
A	EP 0 890 948 A (PIONEER ELECTRONIC CORP) 13 January 1999 (1999-01-13) the whole document	1,9-11
A	US 5 841 861 A (KONDO TETSUYA ET AL) 24 November 1998 (1998-11-24) abstract column 2, line 36 - column 5, line 28 figures 2,3	1,9-11

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB2004/051518

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 02086873	A	31-10-2002	WO 02086873 A1 US 2004156294 A1	31-10-2002 12-08-2004
US 2004156294	A1	12-08-2004	WO 02086873 A1	31-10-2002
US 5729525	A	17-03-1998	JP 9069264 A US 5930225 A	11-03-1997 27-07-1999
JP 9265632	A	07-10-1997	NONE	
EP 0890948	A	13-01-1999	JP 11031357 A CN 1204837 A ,C DE 69824240 D1 EP 0890948 A1 US 6370091 B1	02-02-1999 13-01-1999 08-07-2004 13-01-1999 09-04-2002
US 5841861	A	24-11-1998	JP 9106625 A US 6122245 A	22-04-1997 19-09-2000